

20000304.qrp v01_n750.qrl.20000304

Date: Sat, 4 Mar 2000 19:03:05 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1750

QRP-L Digest 1750

Topics covered in this issue include:

- 1) [64863] FCC Web address ?
by Rick McKee <kc8aon@juno.com>
- 2) [64864] [ANT] Noise bridge vs good SWR meter - not all qrp
by Michael Melland <badger@vbe.com>
- 3) [64865] Re: SD-20 Pole - Keeping Water Out
by david gauding <nf0r@slacc.com>
- 4) [64866] Re: FCC Web address ?
by Tom Isgro <k8cz@concentric.net>
- 5) [64867] Re: FCC Web address ?
by "Victor Blackwell" <victor@brecnet.com>
- 6) [64868] RE: 450 ohm Window line
by "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
- 7) [64869] Re: Trip Alert - Appalachian Trail - Cancelled
by Larry Cahoon <wd3p@juno.com>
- 8) [64870] SST Power Mods ?
by "Alan Fryer" <n3bj@hotmail.com>
- 9) [64871] Re: FYI:K2 for sale
by Bob Hightower <nk7m@extremezone.com>
- 10) [64872] Re: Little Help? K2 mike grounding.
by "Rod, N0RC" <n0rc@qsl.net>
- 11) [64873] QRPpppppppppppppppppppp Question
by Allen Blacker <ablacker@mediaone.net>
- 12) [64874] RS UHF Counter
by "Junius Fox" <w5hir@ghg.net>
- 13) [64875] Re: 450 ohm Window line
by "Victor Blackwell" <victor@brecnet.com>
- 14) [64876] Re: QRPpppppppppppppppppppp Question
by "Victor Blackwell" <victor@brecnet.com>
- 15) [64877] Re: QRPpppppppppppppppppppp Question
by "James Johnson" <kc5jpb@eudoramail.com>
- 16) [64878] Re: FCC Web address ?
by Bob Nielsen <nielsen@primenet.com>
- 17) [64879] RE: 450 ohm line THANKS ALL
by "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
- 18) [64880] Re: 450 ohm Window line
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 19) [64881] Appalachian Trail Alert!!

- by "Ron Polityka" <wb3aal@talon.net>
- 20) [64882] OT : New Orleans area contact?
by "Richard Todd Perry" <perryrt@ikansas.com>
- 21) [64883] Re: QRPpppppppppppppppp Question
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 22) [64884] New at site--Part 2 of Log Cell Yagis
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 23) [64885] Re: QRPpppppppppppppppp Question
by hamjoel@juno.com
- 24) [64886] Re: DX:F00AAA
by "Michael Young" <mikey@mcs.com>
- 25) [64887] Re: Bazooka
by "John Moriarity" <k6qq@hdo.net>
- 26) [64888] RE: 450 ohm Window line
by Monte Stark <ku7y@dri.edu>
- 27) [64889] Re: Bazooka
by AdamN7YA@aol.com
- 28) [64890] March QST
by "Gary Lee Phillips" <ka9nzi@arrl.net>
- 29) [64891] FS/Swap Slide Rule
by "Francis Callahan" <colcal@srv.net>
- 30) [64892] FS: QRP Sprint II 40 meters
by "Tom Bowman" <tbowman@nbn.net>
- 31) [64893] SPICE for Mac
by Jim Durkin <jimdurkin@yahoo.com>
- 32) [64894] VA to Scotland on 700mw, de N4UY/QRPp
by "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
- 33) [64895] e-mail Address for KK7B
by Bruce Kizerian <kizerian@ced.utah.edu>
- 34) [64896] IT'S HERE!!!
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 35) [64897] [Toronto] Buying gel cells
by Laura Halliday <va3ldh@sympatico.ca>
- 36) [64898] FS: GQ40 Hands 40m 5w
by "Steve/n0tu" <n0tu@webaccess.net>
- 37) [64899] Re: IT'S HERE!!!
by "Jim Barrett" <jbarrett@stny.rr.com>
- 38) [64900] Appalachian Trail in PA this morning is QRP-active!
by <aa5yx@juno.com>
- 39) [64901] RS HTX-10 - First impressions.
by "Vincent Ferme" <vferme@sprint.ca>
- 40) [64902] XMTR:Crystals
by "Robert Leavitt" <leavittkid@mediaone.net>
- 41) [64903] Re: [Toronto] Buying gel cells
by "Vincent Ferme" <vferme@sprint.ca>
- 42) [64904] SSB ON 160M SUNDAY
by ARDUJENSKI@aol.com
- 43) [64905] RF Meter

by "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
44) [64906] HUGE garage sale - QRP/HF/VHF/TenTec/tuners/powersupplies/much more
by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
45) [64907] Re: IT'S HERE!!!
by "Mike Yetzko" <myetzko@insydesw.com>
46) [64908] Re: RS HTX-10 - First impressions.
by "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
47) [64909] Re: IT'S HERE!!!
by DOCKROCK1T@aol.com
48) [64910] Re: SPICE for Mac
by "James R. Duffey" <jamesd1@flash.net>
49) [64911] Re: 450 ohm Window line
by "George T. Baker" <w5yr@att.net>
50) [64912] Re: RS HTX-10 - First impressions.
by "Vincent Ferme" <vferme@sprint.ca>
51) [64913] Re: RF Meter
by "George T. Baker" <w5yr@att.net>
52) [64914] Toroid identification ?
by Rick McKee <kc8aon@juno.com>
53) [64915] Re: RS HTX-10 - First impressions.
by "Terres Family" <terresfm@ncia.net>
54) [64916] Re: RS HTX-10 - First impressions.
by "Vincent Ferme" <vferme@sprint.ca>
55) [64917] 250mw from Alaska
by John Raynsford <al7jk@gci.net>
56) [64918] WOT: DSW-30 Construction Report #3
by "Richard Clemens" <clemens@wvwc.edu>
57) [64919] ARRL Phone Contest - qrp
by M Goins <mgoins@usa.net>
58) [64920] DX Summit Cluster Down
by Fred Lesnick <flesnick@tbaytel.net>
59) [64921] Parts: Super Deal on 40 meter crystals
by "Doug Hendricks" <ki6ds@dospalos.org>
60) [64922] Re: DX Summit Cluster Down
by tom palmer <n1tp@worldnet.att.net>
61) [64923] Z Match Tuner Circuit Diagram
by "Brian Murphy" <brmurphy@netside.com>
62) [64924] Appalachian Trail Outing
by "Ron Polityka" <wb3aal@talon.net>
63) [64925] K2 SSB!
by Ed Loranger <we6w@netzero.net>
64) [64926] Re: Appalachian Trail Outing
by "Ron Polityka" <wb3aal@talon.net>
65) [64927] OT: Pitcairn Island VP6BR
by "David Hurley,n2zhy" <n2zhy@amsat.org>
66) [64928] Need On Air 40 Meter Antenna checks ..now if possible
by "Dennis Brickey" <n4dd@preferred.com>
67) [64929] Re: DX Summit Cluster Down

by Hank Kohl K8DD <k8dd@arrl.net>
68) [64930] Interesting question - origin of Vcc
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
69) [64931] Re: Need On Air 40 Meter Antenna checks ..now if possible
by Fred Lesnick <flesnick@tbaytel.net>
70) [64932] Re: Interesting question - origin of Vcc
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
71) [64933] ANT:Tuner
by "Robert Leavitt" <leavittkid@mediaone.net>

Date: Fri, 3 Mar 2000 19:16:47 EST
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [64863] FCC Web address ?
Message-ID: <20000303.191654.4567.1.kc8aon@juno.com>

Anyone on the list have the address for the FCC that you can check for
new licsense issues ? Would like to check on the status of my XYL's
license & cant find the web address. Please email me direct.

73...Rick McKee KC8AON { CW lives as long as I do ! }
Willow Wood,Ohio "oo's"
AR QRP # 269 QRP-L # 2112 ZOMBIE # 718 FPqrp # 33
TriState BrassPounders # 1

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<http://dl.www.juno.com/get/tagj>.

Date: Fri, 03 Mar 2000 18:33:13 -0600
From: Michael Melland <badger@vbe.com>
To: qrp-l@lehigh.edu
Subject: [64864] [ANT] Noise bridge vs good SWR meter - not all qrp
Message-ID: <38C059C9.BAC47D96@vbe.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I know that lots of factors come into play in swr measurement,
especially when dealing with the full band of amateur frequencies being
read by one meter. But I have noticed while experimenting that my noise

bridge (a new Palomar PT-340 tuner-tuner) and Autek WM-1 SWR meter are not in agreement, especially on 10 meters (not that this is perhaps unusual). I know someone here will have a "technical" answer <grin>. While this isn't exactly in this application qrp it is technical in nature so I thought I'd ask here too..... I have noticed the same phenom at qrp levels with similar results on my station.

I have noticed the following readings:

A. PT-340 noise bridge noise nulled by antenna tuner

Transceiver IC = 15 amps

WM-1 SWR = 1.9:1

SWR meter in my Ten-Tec 238 antenna tuner = 1.5:1

Output = 96+ watts

B. Ten-Tec 238 antenna tuner adjusted to read 1:1 SWR on its meter

Transceiver IC = 16 amps

WM-1 SWR = 1.5:1

PT-340 = not at noise null

Output = 93 watts

C. Antenna tuner adjusted so WM-1 reads 1:1 SWR

Transceiver IC = 20 amps

Ten-Tec 238 Antenna tuner = 1:1 SWR

PT-340 = Quite a ways from noise null

Output = 90 watts

The transceiver is a Ten-Tec Omni V and the antenna is a GAP Titan vertical. The readings are all on 10 meters. I notice that all three read much more closely on the lower bands..... in fact the noise bridge and Autek WM-1 agree on 40 meters..... the noise null then is where the meter reads 1:1

Which is generally more accurate a noise bridge like the PT-340 or a decent SWR meter like the Autek WM-1 ? My vote is for the noise bridge.....

--

Michael Melland, W9WIS

Winneconne, Wisconsin, USA

FISTS #4387, 10-10 #69281, QRP-L #1656,

QRP-ARCI #9875, AK/QRP #478, NorCal,

NJ-QRP #214, SOC #142, Cheeseheads QRP Club

CW, SSB, and Electronics
List Administrator: grundig@qth.net
<http://www.qsl.net/w9wis>

Date: Fri, 03 Mar 2000 18:50:24 -0600
From: david gauding <nf0r@slacc.com>
To: qrp-l@lehigh.edu
Subject: [64865] Re: SD-20 Pole - Keeping Water Out
Message-ID: <3.0.6.32.20000303185024.00819100@bbs.galilei.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Howdy,

After using the SD-20 and similar poles for close to 20 years, I believe the simplest way to keep water out is to seal the joints with flexible plastic tape. But, if the antenna is up any length of time (weeks or more) the tape is not going to weather well. UV, temp swings, etc.

With the weather factor in mind the simplest solution for me has been to simply leave rain water (and condensation) pass through the pole and out the bottom. This means making provision for it the base mount. If it's a wooden dowel (sealed) or synthetic material cut a vertical groove to pass the water down to the ground.

Last Sunday, I completed a 120 day antenna performance test which included an SD-20 mounted on a St. Louis Shaft. The combined aluminum and fiberglass assembly puts the tip of the pole and a St. Louis Doublet or Inverted-L at exactly 50 feet. (Kinda' neat, sets up in 10 minutes and it's real portable too!) Water was allowed to pass to ground through the entire support.

However, I was suprised to find each section of the SD-20 was frozen in position when it was brought back to ground level (after four months). Even a few shots of WD-40 have not helped. I twisted the joints pretty tightly when the support was originally installed and they were still quite servicable at that time.

The extended SD-20 is frozen so tightly it probably can't be restored to a collapsed state without damaging the fiberglass. However, my gut reaction is adding protective tape to the slip joints when initially installed would probably postpone this condition somewhat. Ditto for a silicone-type sealant assuming it could be peeled off easily and cleanly when desired.

I suppose my suggestion is to keep it simple and just let the water pass

through the pole and any external support system.

Regards,

de Dave, NF0R nf0r@slacc.com

Date: Fri, 03 Mar 2000 19:58:30 -0500
From: Tom Isgro <k8cz@concentric.net>
To: kc8aon@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [64866] Re: FCC Web address ?
Message-ID: <38C05FB6.F6751BB4@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Rick,

Try

www.fcc.gov

--

72, 73 oo's
Tom K8CZ Hamilton, OH
FPqrp #-41, QRP-1 945, FISTS 2360, NORCAL, QRP-ARCI, ARRL

Date: Fri, 3 Mar 2000 19:59:02 -0500
From: "Victor Blackwell" <victor@brecnet.com>
To: <kc8aon@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [64867] Re: FCC Web address ?
Message-ID: <000a01bf8574\$d59251e0\$385730d1@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Why not use www.qrz.com look up under new license, or check under call. As soon as the status of the license changes, it changes when you look up the call.

Sorry about e-mail direct. I am posting for all.

Vic AD8K

-----Original Message-----

From: Rick McKee <kc8aon@juno.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, March 03, 2000 7:20 PM
Subject: FCC Web address ?

>Anyone on the list have the address for the FCC that you can check for
>new licsense issues ? Would like to check on the status of my XYL's
>license & cant find the web address. Please email me direct.

>

>

>73...Rick McKee KC8AON { CW lives as long as I do ! }
>Willow Wood,Ohio "oo's"
>AR QRP # 269 QRP-L # 2112 ZOMBIE # 718 FPqrp # 33
>TriState BrassPounders # 1

>

>

>-----
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><http://dl.www.juno.com/get/tagj>.

Date: Fri, 3 Mar 2000 19:56:13 -0500
From: "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
To: <qrp-L@LeHigh.edu>
Subject: [64868] RE: 450 ohm Window line
Message-ID: <017d01bf8574\$c98684c0\$04000a0a@user>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I just got a length of 450 ohm polyethilene dielectric
line with "Windows" cut at uniform intervals.
Need to know the VELOCITY FACTOR of that

line so that I can use that line for building phasing sections in a two meter low cost antenna that is in the works here.

Found the standard 300 ohm twinlead V.F. described in some books as 0.8, others say it is 0.82 or 0.83...

But not one reference to window 450 ohm line VF found here !!!

The two meter antenna "in the works" is for portable work with FM handie talkie type radio, so that it may be used in the low power setting during the hurricane emergencies in order to prolong battery life...

The more gain available from the antenna, the lower power that can be used with the HT... and of course then the battery will last longer.

We use HT's here to monitor the level of water reservoirs during the hurricane season...., with portable lightweight antennas that replace the rubber duckies in order to allow us to run the HT in the QRP power settings...

The 300 ohm twinlead J pole gives about 2 dB gain, and we want to increase that to about 6 dB, while still using a very low cost wire antenna system...

72 and DX es tn timer for the help

Arnie

C02KK

Date: Sat, 4 Mar 2000 01:00:29 +0000
From: Larry Cahoon <wd3p@juno.com>
To: epaqrp-1@Lehigh.EDU, qrp-1@Lehigh.EDU
Subject: [64869] Re: Trip Alert - Appalachian Trail - Cancelled
Message-ID: <20000304.010512.-486291.1.wd3p@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Sorry but the trip is off. Two of the kids came up with activities that conflict with the trip. I'll have to try another day.

73 de Larry.....WD3P in MD
EPA #44

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<http://dl.www.juno.com/get/tagj>.

Date: Fri, 03 Mar 2000 17:15:04 PST
From: "Alan Fryer" <n3bj@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [64870] SST Power Mods ?
Message-ID: <20000304011504.13215.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hello

I'd be interested to hear from anyone that's done a power mod to an SST.
I've read a few pieces about using the MRF-237, which is obsolete. Any info
and details on using that device or another would be appreciated.

Thanks,

Alan, N3BJ

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Date: Fri, 03 Mar 2000 18:35:06 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: n2go@arrl.net
Cc: qrp-1@lehigh.edu
Subject: [64871] Re: FYI:K2 for sale
Message-ID: <200003040132.SAA23942@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

At 08:51 AM 3/3/2000 -0500, you wrote:=20
>
> And it is only \$100 more than a brand new one....:)
>
> 73,
>
> Jim n2go
>
> On Fri, 3 Mar 2000 Qrpop@aol.com wrote:
>

> > There is a K2 listed=A0=A0=A0 for sale on the QTH.COM website

Yeah, but he spent 50 hours on it! Cheap labor :^)

Bob Hightower NK7M
Chandler, AZ
SOC #20

<http://www.extremezone.com/~nk7m>

Date: Fri, 3 Mar 2000 18:32:57 -0700
From: "Rod, N0RC" <n0rc@qsl.net>
To: <we6w@qsl.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: <elecraft@qth.net>
Subject: [64872] Re: Little Help? K2 mike grounding.
Message-ID: <01c101bf857a\$dceeb900\$ac101004@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ed, et. al.

----- Original Message -----
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Thursday, March 02, 2000 1:16 PM
Subject: Re: Little Help? K2 mike grounding.

...
> but I found "Grounding the K2 Mic Jack" down the
> page.
>

I "did my own thing" for Mic shell grounding. I found I could solder to the shell. So I soldered a piece of wire to the shell just behind the raised, unthreaded ridge. I put the wire on the left side, then routed it down and underneath the nearby metal standoff. I removed one washer from the standoff mounting, and wrapped the wire securely

around the screw. Works FB.

...

> ground through the shell in addition to a ground
> pin so this is mostly insurance.

I suspect that shell grounding helps to keep stray RF out of the audio
& control wires running through the cable. That is of course if the
Mic cable is shielded.

Sure don't have these troubles with CW only rigs. ;-)

72/3 Rod, NØRC -- Fort Collins, CO

Date: Fri, 03 Mar 2000 20:09:36 -0600
From: Allen Blacker <ablacker@mediaone.net>
To: qrp-1@Lehigh.edu
Subject: [64873] QRPpppppppppppppppppppppp Question
Message-ID: <38C07060.860C525C@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If the answer to this has already been posted, I apologize; but, I ask
of this prestigious audience, what is the effective radiated power of
Pioneer 10's very QRP signal? Is it simply a matter of using the
radiated power, the antenna gain, and the height above the earth
(antenna mounted on a 6.8 billion mile high "tower") to get the
answer? Waxing philosophical, shouldn't QRP include some reference to
effective radiated power? Is working a station 10,000 miles away with
one watt of output power as much of an accomplishment having done it
with a 27 db gain antenna and a 500 foot high tower as having done it
with one watt of output power, 3 db of antenna gain, and very modest
effective radiated power? How should low power contact success be
characterized? Is it all about luck? Operating proficiency? Does
quoting low output power really "say it all". Shouldn't effective
radiated power be quoted? There's no question in my mind that doing it
with less is more impressive; but are everyone's accomplishments really
normalized by just quoting power output?

This is meant to be a 'friendly' question. :-)

A1, W9ALB

Date: Fri, 3 Mar 2000 20:11:54 -0600
From: "Junius Fox" <w5hir@ghg.net>
To: <qrp-1@lehigh.edu>
Subject: [64874] RS UHF Counter
Message-ID: <00bc01bf857f\$03ed7e20\$58c59dd0@gamma>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guys and gals,
there is a sale going on at RS on their 1.3gig counter. It now sells for
\$59.99 regular \$79.99. They might be a bit hard to find, but I kept trying
and found three in the local area (Bay Area south of Houston).

Foxy
w5hir@ghg.net
<http://www.qsl.net/w5hir>

Date: Fri, 3 Mar 2000 21:18:51 -0500
From: "Victor Blackwell" <victor@brecnet.com>
To: <inforhc@mail.infocom.etcasa.cu>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [64875] Re: 450 ohm Window line
Message-ID: <000f01bf857f\$fbf15060\$445730d1@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-Arnaldo,

I just remembered many years ago using a technique of finding a 1/4
wavelength of feeders using a grid dip meter.
As I recall, shorting the far end of the cable and measuring resonance on
open end of line and a bit of carefully trimming the length I produced a
cable the proper length. The velocity factor calculated length was only
useful to get the cable in the right ball park. Of course, make for first

cut of the cable and little too long for adjustments.

Good luck,

Vic AD8K

Date: Fri, 3 Mar 2000 21:29:14 -0500
From: "Victor Blackwell" <victor@brechnet.com>
To: <ablacker@mediaone.net>, "Low Power Amateur Radio Discussion" <qrp-
l@lehigh.edu>
Subject: [64876] Re: QRPpppppppppppppppppp Question
Message-ID: <002101bf8581\$6f39d640\$445730d1@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think your point is perfectly valid. But personally I never gave a hoot
about that type of measure of accomplishment.

Anything works part of the time, nothing works all the time.

Vic AD8K

Date: Fri, 03 Mar 2000 20:28:01 -0600
From: "James Johnson" <kc5j pz@eudoramail.com>
To: qrp-l@Lehigh.EDU
Subject: [64877] Re: QRPpppppppppppppppppp Question
Message-ID: <NCEJKPEEBIMFAAAA@shared1-mail.whowhere.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Language: en
Content-Transfer-Encoding: 7bit

That reminds me of an educational TV station that I worked at in the late 80s.
We had a studio to transmitter link (STL) that had probably less than one tenth of
one watt of power output but the effective radiated power was over 2000 Watts.

James Johnson
Arlington, Texas

kc5jpbz@eudoramail.com

--

On Fri, 03 Mar 2000 20:09:36 Allen Blacker wrote:

>If the answer to this has already been posted, I apologize; but, I ask
>of this prestigious audience, what is the effective radiated power of
>Pioneer 10's very QRP signal? Is it simply a matter of using the
>radiated power, the antenna gain, and the height above the earth
>(antenna mounted on a 6.8 billion mile high "tower") to get the
>answer? Waxing philosophical, shouldn't QRP include some reference to
>effective radiated power? Is working a station 10,000 miles away with
>one watt of output power as much of an accomplishment having done it
>with a 27 db gain antenna and a 500 foot high tower as having done it
>with one watt of output power, 3 db of antenna gain, and very modest
>effective radiated power? How should low power contact success be
>characterized? Is it all about luck? Operating proficiency? Does
>quoting low output power really "say it all". Shouldn't effective
>radiated power be quoted? There's no question in my mind that doing it
>with less is more impressive; but are everyone's accomplishments really
>normalized by just quoting power output?

>

>This is meant to be a 'friendly' question. :-)

>

>Al, W9ALB

>

>

>

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<http://www.eudoramail.com>

Date: Fri, 3 Mar 2000 19:13:29 -0700

From: Bob Nielsen <nielsen@primenet.com>

To: qrp-l@lehigh.edu

Cc: kc8aon@juno.com

Subject: [64878] Re: FCC Web address ?

Message-ID: <20000303191329.C1974@bob.localnet>

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

When I recently changed callsigns, it was on the www.fcc.gov site (there's a link on the sidebar from which one can search) several days before www.qrz.com picked it up.

On Fri, Mar 03, 2000 at 07:59:02PM -0500, Victor Blackwell wrote:

> Why not use www.qrz.com look up under new license, or check under
> call. As soon as the status of the license changes, it changes when you
> look up the call.
>
> Sorry about e-mail direct. I am posting for all.
>
> Vic AD8K
>
>
> -----Original Message-----
> From: Rick McKee <kc8aon@juno.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Date: Friday, March 03, 2000 7:20 PM
> Subject: FCC Web address ?
>
>
> >Anyone on the list have the address for the FCC that you can check for
> >new licsense issues ? Would like to check on the status of my XYL's
> >license & cant find the web address. Please email me direct.
> >
> >
> >73...Rick McKee KC8AON { CW lives as long as I do ! }
> >Willow Wood,Ohio "oo's"
> >AR QRP # 269 QRP-L # 2112 ZOMBIE # 718 FPqrp # 33
> >TriState BrassPounders # 1
> >
> >-----
> >YOU'RE PAYING TOO MUCH FOR THE INTERNET!
> >Juno now offers FREE Internet Access!
> >Try it today - there's no risk! For your FREE software, visit:
> ><http://dl.www.juno.com/get/tagj>.
>

--
Bob Nielsen, N7XY (RN2) nielsen@primenet.com
Tucson, AZ DM42nh QRP-L #1985 SOC #77 <http://www.primenet.com/~nielsen>

Date: Fri, 3 Mar 2000 21:39:40 -0500
From: "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
To: <qrp-L@LeHigh.edu>
Subject: [64879] RE: 450 ohm line THANKS ALL
Message-ID: <000901bf8582\$e45854a0\$04000a0a@user>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Once again ...

A big thank you to all that have sent info about the 450 ohm polyethilene dielectric line's velocity factor.

Will pass along the info on the wire antenna for 2 meters that will help operate the HT's using the low power setting !!!
72 and DX

Arnie

C02KK

Date: Fri, 03 Mar 2000 20:42:58 -0600

From: "Steve Yates, AA5TB" <aa5tb@swbell.net>

To: inforhc@mail.infocom.etcscs.ca, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [64880] Re: 450 ohm Window line

Message-ID: <001201bf8583\$5ad54700\$c3763ed8@aa5tb>

MIME-version: 1.0

Content-type: text/plain; charset="iso-8859-1"

Content-transfer-encoding: 7bit

Arnie,

I don't have the velocity factor of the 450 ohm window line for you but I may have a method for determining the velocity factor for yourself.

Suspend a few wavelengths of the line in the clear, the frequency is not critical although the lower the frequency the greater the precision of your measurement. For example, 1 cm of measurement error at 30 MHz would give you 10 times the accuracy as compared to 1 cm of error at 300 MHz. Short one end of the line or leave open, whichever way your matching network will couple into the line effectively. Excite the line with RF and adjust the matching network for the best match. Now, take a small neon bulb, such as a NE-2 and walk it along the line very close to it but not touching it. Use the least amount of power as possible that will sustain ignition of the bulb. Since the line isn't properly terminated and since the energy has to go somewhere something will arc or burn up if you use too much power! I would think a couple of watts should be more than enough. You will notice a peak and a null in the bulb luminance as you walk it along the line caused by the standing waves on the line. The null is usually much sharper than the peak. Measure the distance between the nulls. This distance will be

the electrical half-wave length. Compare this value to the calculated wavelength for the frequency that you are using and this will give you the velocity factor (measured half-wave length / calculated half-wave length). I suspect for 450 ohm window line the velocity factor will be greater than 0.8 since there isn't much dielectric between the conductors.

There are other ways to determine the velocity factor but you may have to adjust the line length a little at a time which may take a long time.

Good luck and let us know what you come up with.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://home.swbell.net/aa5tb>

Date: Fri, 3 Mar 2000 21:47:17 -0500
From: "Ron Polityka" <wb3aal@talon.net>
To: ". QRP-L" <qrp-l@Lehigh.EDU>
Subject: [64881] Appalachian Trail Alert!!
Message-ID: <00a101bf8583\$f4db83a0\$a4e508cf@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

Well Carter, N3AO, and Ron, WB3AAL, will activate the PA section of the Appalachian Trail.

Look for us on March 4, 2000 around Noon time.
Carter will start out on 40 meters at the usual QRP frequencies and I will be on 20 meters. We will be in the CW mode due to the SSB contest on the air.

72 & 73
Good DXing

Ron Polityka
de WB3AAL
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv
http://www.n3epa.org
Eastern Pennsylvania QRP Club Call
N3EPA E-mail address: n3epa@talon.net

EPA QRP #1	NJ QRP #179
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal	Zombie #625
ARS # 380	HI-QRP #153
VA QRP Society	

Date: Fri, 3 Mar 2000 20:53:56 -0600
From: "Richard Todd Perry" <perryrt@ikansas.com>
To: "qrp-1@Lehigh. EDU" <qrp-1@Lehigh.EDU>
Subject: [64882] OT : New Orleans area contact?
Message-ID: <NBBBJLEJMNACNHDKHMJEELECCAA.perryrt@ikansas.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Help! I'm part of a collegiate team involved in a solar-powered boat competition. Being headed that way already, I'm in charge of communications/telemetry - I'll be using APRS, basically...

I'd like to get in touch with a ham from the New Orleans to discuss a good frequency for operations in the 2m band. I need a simplex channel, and don't want to interfere with anything in the area. I tried to contact the ARRL Section Manager, but no dice.

I kinda need to know soonest, since I'm going to have to hardwire it into the TXMR in the telemetry setup in the near future. (The race isn't until June, though.)

Anybody want to talk about this?
Thanks!

Regards,

Richard T. Perry perryrt@ikansas.com
"Fraser, there's a guy on my corner who asks me every morning if I've

seen God; do you really think he expects me to point Him out?"
"Well you know, Ray, if you did, perhaps he'd stop asking."
Ray Vecchio and Benton Fraser, "Hawk and a Handsaw", Due_South

Date: Fri, 03 Mar 2000 20:59:57 -0600
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: ablacker@mediaone.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [64883] Re: QRPpppppppppppppppppppppp Question
Message-ID: <002101bf8585\$ba5a7c20\$c3763ed8@aa5tb>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Hi Al,

The ERP factor in the QRP equation has already been beat to death in the past but I'll beat it some more :-)

It goes without question that the greater the ERP, the greater the signal. This is easy to calculate in free space. Back on Earth things become much more complicated. For instance, one may know the gain of a particular antenna but this gain figure is usually for the main lobe of the radiation pattern. This lobe of course changes with elevation. And do you know what elevation angle you were using when making a contact? Probably not for sure. What if you are using a non-rotatable rhombic with 12 dBi of gain yet the majority of you contacts were off of the main azimuth lobe? Would you program in a handicap based upon great circle bearing and distance or ionospheric layer you were using? If QSO success was measured by ERP the inaccuracies would be staggering and near accurate calculations would be tedious.

I know it doesn't seem fair to compare a 1 watt station with a 4 element monobander at 100 ft to a 1 watt station with a G5RV at 10 ft but do will really compete as QRP operators in this manner anyway? We just make do with what we have and try to stretch our little bit of power as far as we can. Part of the accomplishment is knowing how to make that 1 watt sound like a kW.

Besides, gain antennas don't create any extra energy. They just focus it into one direction.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://home.swbell.net/aa5tb>

Date: Fri, 3 Mar 2000 22:19:25 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: QRP-L List <qrp-l@lehigh.edu>, gqrp@onelist.com, towertalk@contesting.com,
antennas@qth.net, antennaware@contesting.com
Subject: [64884] New at site--Part 2 of Log Cell Yagis
Message-ID: <Pine.GSO.4.10.10003032218020.6938-100000@moe.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have placed part 2 of the log-cell Yagi series at the site, since it has
now appeared in NCJ. Hope it is some use to someone.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	Tel: (865) 938-6335
1434 High Mesa Drive	/	\	\	----	/	---	http://www.cebik.com
Knoxville, Tennessee	/\	\	\	/	/		e-mail: cebik@utk.edu
37938-4443 USA	/	\	\	\			e-mail: w4rnl@arrl.org

Date: Fri, 3 Mar 2000 22:41:31 -0500
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [64885] Re: QRPpppppppppppppppppp Question
Message-ID: <20000303.224133.-276495.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

A friendly replly: to Al's question

QRP for our purpose is 5 watts or less output from ur xmtr.... what u do
to make that power efficient or in-efficient is up to you...

My aim is to have dependable communication ability and a "good" antenna
is part of the solution for me at 5 watts and less power output...

The achievement (for me) is, I can communicate most any time day or nite
with 5 watts and a "good" antenna... and the better the antenna.... the
more I can lower my power out and still get an R5 OR 54 report on my

signal... which means I'm not "making the receiving station "work" for the contact". I am doing the same as any qro station... presenting a readable signal to the receiving station... however I am doing that with 5 or less watts.... that is an accomplishment....

Power output.... levels.... the playing field... gives a point of reference... provides a standard to measure against....

NO TWO identical antennas will give u the same exp... unless u have identical conditions at both installations...

5 watts is 5 watts no matter where u have it... very effective communications with low power on a consistent basis ... generally translates to a good effective ant system... as nasa's long distance communications with low power suggests and is...

In Nasa's case it's the receiving station's antenna that makes the day....

pass a good time

Joel KE1LA
In Maine

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<http://dl.www.juno.com/get/tagj>.

Date: Fri, 3 Mar 2000 22:09:41 -0600

From: "Michael Young" <mikey@mcs.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [64886] Re: DX:F00AAA

Message-ID: <008901bf858f\$776b4700\$7004a2c6@fensoft.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

14025 at 0350z. Also worked TA2DS on his freq while F00 went QRX. Wadda zoo!
:-)

Michael.
K9ZC

----- Original Message -----

From: Bruce Rattray <rattray@gpfn.sk.ca>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Thursday, March 02, 2000 7:17 PM

Subject: DX:F00AAA

> Just worked F00AAA, Clipperton Island dxpediton on 28.025 and I was 6
> up...I ran 5 watts to a 2 el tribander.....0114Z...good luck!
>
> ..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
> A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
> "QRP! How sweet it is!" "I am da man wit "DAH" paddle!"
>

Date: Fri, 3 Mar 2000 21:47:27 -0800
From: "John Moriarity" <k6qq@hdo.net>
To: <ku7y@dri.edu>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [64887] Re: Bazooka
Message-ID: <006901bf859d\$2047cf80\$eb424cd1@k6qq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ron said:

> (Back then we didn't have SWR meters but did have things
> like Pi network output circuits!

SWR meters?? I didn't have one for the first fifteen years I was
on the air! I had neon bulbs, fluorescent bulbs for RF voltage
"measurement", and flashlight bulbs for antenna current "measurement".

Heck, for the first few years I used pilot light bulbs for
current measurement in my transmitters. As long as the plate of
my 807 wasn't red, it was O.K.!

I probably only worked 100 countries or so, so it must not have
worked too well :-)

Sometimes I think we make this hobby too hard.

73,

John, K6QQ

Date: Fri, 3 Mar 2000 22:56:26 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [64888] RE: 450 ohm Window line
Message-ID: <Pine.GS0.4.10.10003032251240.1254-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Arnie,

Many years ago we used to use lots of twin lead. Not many could afford coax back then!

One little trick we used was to take a piece of twin lead about 3 foot long and cut one side in the center. Solder a low voltage light bulb in there. Solder the two ends of the twin lead together.

Now you can slide that section of line with the light along our feed line and watch the light. It will get bright at each voltage (or is it current?) max. That will happen at each 1/2 wave.

I'm sure you could use a more sensitive device than a light bulb but you get the idea.

cul,

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....

Date: Sat, 4 Mar 2000 03:16:53 EST
From: AdamN7YA@aol.com
To: qrp-l@lehigh.edu
Subject: [64889] Re: Bazooka
Message-ID: <2d.1fb56d5.25f22075@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 3/3/2000 9:46:17 PM Pacific Standard Time, k6qq@hdo.net writes:

<< SWR meters?? I didn't have one for the first fifteen years I was on the air! >>

I should probably get one of those meters...its been 17 years since i got my ticket, its about time i got things like a tuner, SWR meter, keyer, LED anything (including a clock)....im quite prehistoric over here, aside from the computer....but it was a gift, prior to receiving it, i knew nothing about these things either.....i guess the thing i want most is an outdoor antenna to crack this F00 pile-up with, its a monster!! oh well, these toys are part of my life to have fun with....no biggie :-)

72/73/74...Adam, N7YA
Las Vegas, NV...Zone 03
QRP-L #1608, SOC #143, Y Guy #2
Code Warrior #76, Hamusician #1

Date: Sat, 4 Mar 2000 05:47:24 -0600
From: "Gary Lee Phillips" <ka9nzi@arrl.net>
To: qrp-l@lehigh.edu
Subject: [64890] March QST
Message-ID: <200003041147.GAA02328@fb00.eng00.mindspring.net>

I have taken Ed's suggestion and written a brief message to both the editors and my division director in support of the QRP features in the March issue and encouraging more promotion of QRP.

Just thought I'd point out that the survey on the arrl.org web site right now is asking us to vote for the best article in that issue. Let's make sure a QRP writer wins the award!

My vote goes to Lew Smith for his 10-meter QRP transmitter.

-- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>
KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg
QRP ARCI #5154 <http://www.netcom.com/~fuffle/>

Date: Sat, 4 Mar 2000 06:34:35 -0700
From: "Francis Callahan" <colcal@srv.net>
To: <QRP-L@Lehigh.edu>
Subject: [64891] FS/Swap Slide Rule

Message-ID: <000d01bf85de\$62e87a60\$1ade070c@callahan>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have a Pickett microline model 140 with manual to swap for qrp item or sale
KF7ET Cal colcal@srv.net 72

Date: Sat, 4 Mar 2000 09:02:59 -0500
From: "Tom Bowman" <tbowman@nbn.net>
To: <qrp-l@lehigh.edu>
Subject: [64892] FS: QRP Sprint II 40 meters
Message-ID: <LPBBKNNCCFBPAKMPADLJCEOFDAAA.tbowman@nbn.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I built this 40 meter Oak Hills research kit, and it works well.

The circuit is the classic "Optimized QRP Transceiver" that appeared first in QST, August, 1980, p.14, by Roy Lewallen, W7EL.

Assembled, with manual.

\$65 and I'll pay the shipping in lower 48 states.

73,

Tom, WA3REY

 <>< Tom Bowman, WA3REY, Mount Gretna, PA 17064
 QRP-L 125

Date: Sat, 4 Mar 2000 06:42:54 -0800 (PST)
From: Jim Durkin <jimdurkin@yahoo.com>

To: qrp-1@lehigh.edu
Subject: [64893] SPICE for Mac
Message-ID: <20000304144254.15895.qmail@web307.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Is there a SPICE version for Macintosh Computer?
Thanks.
73
Jim kt4a

Do You Yahoo!?
Talk to your friends online with Yahoo! Messenger.
<http://im.yahoo.com>

Date: Sat, 04 Mar 2000 09:53:32 -0500
From: "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
To: GQRP-L <qgrp@onelist.com>, NoVa QRP group <NoVaQRP@topica.com>, NJ QRP Club
<njqrp@njqrp.org>, QRP-L <qrp-1@lehigh.edu>
Subject: [64894] VA to Scotland on 700mw, de N4UY/QRPP
Message-ID: <38C1236C.5BA1698@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

WOW!!

I just worked George, GM30XX, with my homebuilt Small Wonder Labs GM-10
at 700mw to my attic 10/15/20m dipole on 28.060 at 1424z on 4Mar,
(George was at 1 watt) then I worked Don, G4JHO on 28.055 at 1444z
(Don was QRO but liked the QRPP contact).

This 10m stuff is fun!!!

Jake -- N4UY/QRPP
Vienna, VA
(Wash DC suburbs)

Date: Sat, 04 Mar 2000 08:12:07 -0700
From: Bruce Kizerian <kizerian@ced.utah.edu>
To: qrp-1@Lehigh.EDU
Subject: [64895] e-mail Address for KK7B
Message-ID: <38C127C7.E13E5596@ced.utah.edu>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Does anyone know the latest e-mail address for Rick Campbell
KK7B? The one in his "Binaural Receiver" article in the
March 1999 QST no longer works, and I would like to get in
touch with him.

Thanks in advance

Bruce kk7zz

Date: Sat, 04 Mar 2000 10:13:47 -0500
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>, "njqrp@njqrp.org" <njqrp@njqrp.org>,
Bill Cole <billc@dandy.net>, Dave Marshall <n8oay@sprintmail.com>,
Don Schimmel <dwschiml@intrepid.net>, Ed Muro <kc2ayc@banet.net>, John
McColman <trunkscan@home.com>, Jon Cohen <jon@pluto.njcc.com>,
Subject: [64896] IT'S HERE!!!
Message-ID: <38C1282B.BAD7E9A2@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The Postlady delivered the box today.

K2 #946 has arrived at its home QTH.

Murphy has a sense of humor. How am I supposed to melt solder during the
ARRL DX SSB contest????

--
+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Sat, 04 Mar 2000 10:54:36 -0500
From: Laura Halliday <va3ldh@sympatico.ca>
To: qrp-l@lehigh.edu
Subject: [64897] [Toronto] Buying gel cells
Message-ID: <38C131BC.857562DF@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I made the mistake of wandering by Active Surplus Friday
afternoon... :-)

They have stacks of various gel cells. Most are 6 volts,
ranging from 3.4 to 10 Ah. They also have a bunch of those
cute little 12 volt 5 Ah jobs. Just the ticket for running
a portable QRP radio. Used, but about a quarter of what
Digi-Key want for new ones.

--

Laura Halliday VA3LDH "Laisse le vent tout emporter..."
Grid: FN03gs - Foly/Viennet

Date: Sat, 4 Mar 2000 08:56:58 -0700
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [64898] FS: GQ40 Hands 40m 5w
Message-ID: <006301bf85f2\$462d0a80\$5448460f@snp.webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Too many rigs not enough time!

GQ40 5+ watt 40m QRP QSK -XCVR
RX features a double bal. mixer w/brick wall 6-pole xtal filter.

Works OK? I think it needs some alignment.

- RX sensitivity a little down.
- TX 5w+ output.

(original kit price >\$150)

\$65 obo ... Shipped in US

Steve/n0tu

Date: Sat, 4 Mar 2000 10:56:08 -0500
From: "Jim Barrett" <jbarrett@stny.rr.com>
To: <qrp-1@lehigh.edu>
Subject: [64899] Re: IT'S HERE!!!
Message-ID: <000e01bf85f2\$284d5600\$1c335e18@stny.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "T.J. "SKIP" Arey N2EI" <tjarey@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Saturday, March 04, 2000 10:13 AM
Subject: IT'S HERE!!!

> The Postlady delivered the box today.
>
> K2 #946 has arrived at its home QTH.
>
> Murphy has a sense of humor. How am I supposed to melt solder during the
> ARRL DX SSB contest????
>

I also took delivery on a new K2 this week. My bundle of joy arrived in the mailbox Monday afternoon.

My serial number is 919 - your S/N is up to 946 just 4 days later... looks like the good folks at Elecraft are really churning 'em out! I'll bet the QST review has a lot to do with it.

Completed construction of the control board last night - now it's on to the front panel. I could put it together faster, but assembly of the K2 is something to be savored slowly - like a fine wine, or good steak.

73

Jim Barrett - KC2DCC

Date: Sat, 4 Mar 2000 07:59:52 -0800
From: <aa5yx@juno.com>

To: <qrp-1@lehigh.edu>
Subject: [64900] Appalachian Trail in PA this morning is QRP-active!
Message-ID: <200003041559.HAA06095@disp-001.pocketmail.com>

Ron WB3AAL asked me to post a reminder to the list that he and N3AO will be activating the Appalachian Trail in Pennsylvania at around 11:00am (1600z) this morning (4 Mar).

N3AO will be on 20 & 40, WB3AAL will be on other bands, standard CW QRP freqs.

They are both members of the Eastern PA QRP Club which sponsors the Appalachian Trail Award. See: <http://www.n3epa.org>

Looks like a nice sunny day for them. 72,

John Harper AA5YX/2
QRP and TLR? <http://home.att.net/~j..harper>

Date: Sat, 4 Mar 2000 11:12:19 -0500
From: "Vincent Ferme" <vferme@sprint.ca>
To: <qrp-1@lehigh.edu>
Subject: [64901] RS HTX-10 - First impressions.
Message-ID: <000f01bf85f4\$6b88b8e0\$46746395@vince>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi Group,

Received the HTX-10 last Thursday and after playing with it for a couple of hours, including the ARRL DX contest going on right now, I would like to give you my first impressions.

This radio is small, easy to hide, specially when desk space is at a premium. While the front panel is not crowded, I have come to the conclusion that I prefer a bigger radio to allow my fingers to move around freely.

The microphone is small and seems so fragile that I'm handling it with care. The antenna I'm using is a mag mount mobile CB trimmed to 10 meters on the balcony railing.

My motivation to purchase the HTX-10 was to play with FM. It works great, and because of the propagation today, I can hear a couple of different repeaters

that share the same frequency. I believe one is in Europe.

Power on all modes as advertised, receiver sensitivity seems very good, I think it's a little better than the HTX-100. The beep that is present when touching a key is louder than expected. Fortunately it can easily be disabled.

I have read complains that after transmitting on FM, the transmitter would remain on and the radio had to be powered off and on again to release it. I don't have this problem. Another complain I read about is regarding the s meter. Some people say theirs will not move much, even with a strong signal, hardly going past s3. Again I have not experienced this problem.

Another complain I see on the newsgroups is about the fine tuning moving both the TX and RX frequency. While I agree it's not a good thing, with this particular radio and its smaller tuning step being 1Khz, I think it's a good idea to have both frequencies move together. We don't need 1 up or down all the time. :)

As you all know by now, it does not have CW. It receives CW ok on LSB/USB, and there is at least one member of the list (sorry your callsign escapes me right now) that has added CW to his HTX-10.

The operator's manual is just that, not a "QRP-L type approved" manual :), there is no schematic or any other technical information besides the specs.

I think it's a tremendous value at the catalog price. Any price reduction will make it a bargain hard to resist. I sure hope the rumors about other bands being offered are true.

Considering the price, features, performance and ergonomics, I will give the HTX-10 two thumbs up.

Please note this is a review of only one HTX-10, my unit. No connection with Radio Shack, all possible disclaimers apply.

73 de Vince, VA3VF.

Date: Sat, 4 Mar 2000 11:17:30 -0500
From: "Robert Leavitt" <leavittkid@mediaone.net>
To: <qrp-l@Lehigh.EDU>
Subject: [64902] XMTR:Crystals
Message-ID: <006901bf85f5\$241c9d40\$c0609318@ne.mediaone.net>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does any one know of any place to get crystals for my new 40 meter QRP CW transmitter?

I am looking for crystals specifically for 7.040mhz fundamentals in HC-6/U or FT-243 holders.

If any one has any or knows where to get one you can e-mail me at kb1dhb@qsl.net

Thanks

Drew Leavitt
KB1DHB/AA
kb1dhb@qsl.net

Date: Sat, 4 Mar 2000 11:19:58 -0500
From: "Vincent Ferme" <vferme@sprint.ca>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [64903] Re: [Toronto] Buying gel cells
Message-ID: <001501bf85f5\$7ce61b40\$46746395@vince>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

Big mistake, Laura. :)) How is the gorilla at the door doing? They have a stuffed gorilla costume that scare the heck out of people. The only time my wife was there she almost had a heart attack.

Are the batteries ok? Are they charging and keeping the charge? I go there regularly and saw the batteries. Who knows how long they have been sitting unused before arriving there. Some of them are new old stock.

73 de Vince, VA3VF.

----- Original Message -----
From: "Laura Halliday" <va3ldh@sympatico.ca>

I made the mistake of wandering by Active Surplus Friday

afternoon... :-)

They have stacks of various gel cells. Most are 6 volts, ranging from 3.4 to 10 Ah. They also have a bunch of those cute little 12 volt 5 Ah jobs. Just the ticket for running a portable QRP radio. Used, but about a quarter of what Digi-Key want for new ones.

Date: Sat, 4 Mar 2000 11:42:47 EST
From: ARDUJENSKI@aol.com
To: nwq-1@scn.org, qrp-1@lehigh.edu
Subject: [64904] SSB ON 160M SUNDAY
Message-ID: <dd.1fef8d3.25f29707@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I would like to offer an invitation for any one to join in on 160M gathering on Sunday evening 0500Z 07 March on or about 1.970.

During the 160M contest I was amazed at how well I got out on just a 66 ft end fed wire up 5 ft. (now 132 ft end fed inverted vee up 30 ft at apex). Based upon the performance of the band nitely listening in on a few groups, I think it should an interesting experiment. I know BC,AB, ID,WA and OR should do well on 10 watts or less. CA, NV, MT, and AZ might need a bit more power.

Don't have a 160M antenna? Heck tune up that end fed wire (like me), those with 40M doublets connect the two feed wires together and run as a T or go make one of those DCTL loops. Even if you can't xmit listen in. You might be surprised at the stations you hear.

Hope to catch you Sunday evening. 73's--Alan KB7MBI

Date: Sat, 4 Mar 2000 11:52:10 -0500 (EST)
From: "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
To: "qrp-L@Lehigh.EDU" <qrp-L@Lehigh.EDU>
Subject: [64905] RF Meter
Message-ID: <Pine.BSI.4.05L.10003041149470.11434-1000000@vh1.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Running 5 watts, would something like a 0-100 MA RF PANEL METER W/ REMOTE

SENSOR act as a field strength meter? I'm too brain dead to do the math.

thanks
thom
k3hrn

Date: Sat, 4 Mar 2000 11:58:47 -0500 (EST)
From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
To: w7pxl@egroups.com, eax@w3eax.umd.edu, Laurel ARC <larc-1@webtrek.com>, forsale-swap@qth.net, qrp-1 <qrp-1@lehigh.edu>
Subject: [64906] HUGE garage sale - QRP/HF/VHF/TenTec/tuners/powersupplies/much more
Message-ID: <Pine.LNX.4.10.10003041153340.28421-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I moved into this house seven months ago and still don't have control over my garage. In order to accomplish this, I need to sell MUCH of my ham gear. And no, I am not dropping out of ham radio, as my car is still quite the mobile shack - worked a few hundred Qs during last weekend's ARRL CW contest whilst driving from home to Salem, over to the coast, south to Waldport, and through the woods back to Eugene.

Anyway, here's my huge garage sale list. I've sold six items in the last week, so the list is basically intact. Enjoy. Forward this list at will.

HF RIGS (QRP and otherwise)

Ten-Tec Paragon 585, excellent condition. General coverage HF xcvr. Box, manual, mic, std. filters. \$950

Kenwood TS-520S, VFO-520, AT-200, SP-520 w/MC-35. Radio, antenna tuner, external VFO - complete back-up or starter station. Tubes in good shape when last operated, all in very good cond. \$425

Radio Shack HTX-100 10m SSB/CW mobile, good cond. w/box
\$125

A & A Engineering 20m QRP rig, missing some ICs, vg cond. Manual.
\$70

Oak Hills Research "Classic," 20/40m QRP CW rig. Some scrapes but works well. Manual. \$175

Small Wonder Labs SW40 40m QRP CW rig w/painted factory case. Nearly perfect condition, w/manual. \$80

Oak Hills Research OHR-100 40m QRP CW rig. W/manual, exc. cond. \$80

Norcal 40A 40m QRP CW rig. Excellent cond. \$90

Ten-Tec 1340 40m QRP CW rig. Excellent cond. w/manual. \$80

Ten-Tec 1340, not quite up to snuff. \$70

Emtech 40m QRP CW rig. Manual is somewhere around here. \$80

Oak Hills OHR-100 30m KIT (unbuilt). Perfect condition! \$75

Ten-Tec Century 21 Digital w/manual. 80-40-20-15-10 CW xcvr. Excellent condition, good for 25-45w output. Easy to use, w/manual. \$245

Heathkit HW-9 w/PSA-9 power supply and vinyl dust covers. Excellent condition. Comes w/all WARC bands installed - 80-10m. W/manuals. \$375

SGC SG-2020 compact 20w portable general coverage SSB/CW xcvr. Sells new for \$675, hardly used. Extremely rugged, exc. cond. w/manual. \$525

ANYENNA TUNERS & WATTMETERS & OTHER STUFF

MFJ 901B antenna tuner, 200w, no metering. Excellent cond. \$50

Autek WM-1 computing wattmeter PEP/avg computing wattmeter. Unit is in near-perfect condition physically but I seem to remember something about it not working last time I tried it a year ago. Sells for \$133 new, asking \$85 as no wattmeter is that hard to fix...I just don't have the time to think about it right now. \$85

Radio Shack digital wattmeter, MTA-20. New in box. Works down to a watt (use one myself for QRP) and up to 2kW. \$50

Barker & Williamson VS300A, handles random wire, balanced line and

coax-fed antennas. Excellent condition, probably have manual lying around. \$75.

MFJ-934 combination 300w antenna tuner / artificial ground. New in box. New price is \$169. Theoretically eliminates RF current on equipment chassis by creating current sink on either actual ground wire or single counterpoise thrown out window, laid along floor, etc.
\$130

Heathkit SA-2040 antenna tuner. BIG. Good condition. Theoretically handles 2kW. No meters. Manual included. \$70

Nye Viking MB-VA top of the line antenna tuner. Handles many kW. Sells new for about \$850. Excellent condition, rarely used over a few watts.
\$525

AEA QT-1 antenna tuner w/wattmeter. Someone once put too much power through it and the some of the coil forms, well, melted. It's pretty much the same as B&W Airdux. However, the coil still looks like a coil, and I've used it successfully on HF and 6 meters at QRP levels. The rest of the unit is in excellent shape and the metering works fine. Has a cross-needle meter.
\$50

VHF radios

Alinco DR-610 2m/440 mobile. Excellent condition w/box, manual, \$360

Radio Shack HTX-212 50w 2m mobile FM, excellent condition.
\$150.

Radio Shack HTX-242 50w 2m mobile FM, excellent condition.
\$160.

Radio Shack HTX-202 2m handie talkie - great ham-band-only RX. Excellent condition. Comes w/battery, charger, antenna, and manual. Have one with box and two without.
\$110 ea.

Alinco DJ-F1T 2m HT w/extended RX range. Excellent condition. Comes w/battery, charger, antenna, and manual \$140

Yaesu FT-470R 2m/440 HT, excellent condition w/battery, charger, antenna, and manual. Extended receive. \$250

Yaesu FT-50R w/FTT-12 DVR keypad. Excellent condition w/box, etc, \$240

Radio Shack PRO-2039 base scanner, cell blocked, exc. cond. in box, \$160

Radio Shack Pro-51 handheld scanner, cell blocked, exc. cond. in box,\$160

VHF amps & accessories

Diamond MX-72D (UHF connectors) - 2m/440 duplexer	\$28
Diamond MX-72DN (N on UHF) - 2m/440 duplexer	\$32
Diamond MX-72N (N on UHF) - 2m/440 duplexer	\$32
Larsen AD2/70 2m/440 duplexer - UHF connectors	\$25
Radio Shack HTA20 30w 2m amplifier, in box	\$50
Radio Shack HTA20 30w 2m amp, exc. cond.	\$45
Non-working Radio Shack HTA20, don't remember why not wkg.	
\$20	
Mirage B23 30w 2m amp, on/off switch installed, VG cond.	
\$55	
RF Concepts VHF-1-60 2m HT amplifier, 1w in gives 60w out.	
\$160	

Power Supplies

Lambda LNS-P-12, 12VDC @ 14A, good cond.	\$75
Lambda LM-D12 12VDC @ 10A, screws missing. SIX pass xistors.	
\$50	
LH Research, 5V @ 150A & 12V @ 10A.	\$100
Tripp-Lite PR-7B 12VDC @ 5A (7.5A surge)	\$35
Video camera power pack - 12 VDS @ 2A w/cig. ltr. socket	
\$35	
Mitsubishi 12VDC @ 800mA underrated power supply	\$25
TrippLite PR-4.5A 12VDC@3.5A (4.5A surge)	\$27
Astron RS-35A 12VDC@25A (35A surge)	\$120
Astron RS-20A 12VDC@16A (20A surge)	\$70

Believe it or not, that's ALL I have to sell right now. Amazing, eh?
Anyway, one of these days I'll again have the urge to get a garage full of stuff but for the moment, I'll just be happy with building a few kits here and there and having my test equipment and a rig or two, as opposed to 20 or 30. Until then...

Offers considered but no trades, please - that's how I got into this situation :) All prices are plus shipping.

Scott Rosenfeld ARS N7JI
541-684-9970 Eugene, OR Land o' much rain
If you find me on the air, I'm probably in my car
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

Date: Sat, 4 Mar 2000 11:48:13 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <tjarey@home.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [64907] Re: IT'S HERE!!!
Message-ID: <00c001bf85fa\$dd80fec0\$b6bbfea9@dads-hp>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You know, the temptation is to post something to the net that would be highly inappropriate, and offensive to most bipeds.

My K2 is still waiting to be shipped....

Mike

>The Postlady delivered the box today.
>
>K2 #946 has arrived at its home QTH.
>
>Murphy has a sense of humor. How am I supposed to melt solder during the
>ARRL DX SSB contest????
>
> T.J. "SKIP" AREY N2EI

Date: Sat, 4 Mar 2000 12:03:31 -0500
From: "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
To: <vferme@sprint.ca>, "qrp-l" <qrp-l@lehigh.edu>
Subject: [64908] Re: RS HTX-10 - First impressions.
Message-ID: <122a01bf85fb\$92307d00\$0100a8c0@dadsmachine>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Vince, will you please test something for me on the HTX-10?

According to the manual, you can "turn off" the key-press-beep by turning on the radio while holding down the PTT. This is true on my radio EXCEPT that it doesn't work the first time. If I turn on my radio for the first time with PTT engaged, I still have the beep. If I turn off the radio and then turn it back on, again with PTT engaged, THEN the beep goes away. Does

yours work the same way?

Note: one thing that may be causing this my PS. I am using a gel-cell with an off/on switch. My normal procedure is 1) plug radio power line into gel-cell socket, turn on gel-cell, press and hold PTT, turn on radio, release PTT, test for beep, if still there, turn off radio, press and hold PTT, turn on radio (Note gel-cell has not been turned off here), release PTT, beep is gone.

Comments?

Michael - N4NMR

----- Original Message -----

From: Vincent Ferme <vferme@sprint.ca>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Saturday, March 04, 2000 11:12 AM

Subject: RS HTX-10 - First impressions.

> Hi Group,
>
> Received the HTX-10 last Thursday and after playing with it for a couple of
> hours, including the ARRL DX contest going on right now, I would like to give
> you my first impressions.
>
> This radio is small, easy to hide, specially when desk space is at a premium.
> While the front panel is not crowded, I have come to the conclusion that I
> prefer a bigger radio to allow my fingers to move around freely.
>
> The microphone is small and seems so fragile that I'm handling it with care. The
> antenna I'm using is a mag mount mobile CB trimmed to 10 meters on the balcony
> railing.
>
> My motivation to purchase the HTX-10 was to play with FM. It works great, and
> because of the propagation today, I can hear a couple of different repeaters
> that share the same frequency. I believe one is in Europe.
>
> Power on all modes as advertised, receiver sensitivity seems very good, I think
> it's a little better than the HTX-100. The beep that is present when

touching a
> key is louder than expected. Fortunately it can easily be disabled.
>
> I have read complains that after transmitting on FM, the transmitter would
> remain on and the radio had to be powered off and on again to release it.
I
> don't have this problem. Another complain I read about is regarding the s
meter.
> Some people say theirs will not move much, even with a strong signal,
hardly
> going past s3. Again I have not experienced this problem.
>
> Another complain I see on the newsgroups is about the fine tuning moving
both
> the TX and RX frequency. While I agree it's not a good thing, with this
> particular radio and its smaller tuning step being 1Khz, I think it's a
good
> idea to have both frequencies move together. We don't need 1 up or down
all the
> time. :)
>
> As you all know by now, it does not have CW. It receives CW ok on LSB/USB,
and
> there is at least one member of the list (sorry your callsign escapes me
right
> now) that has added CW to his HTX-10.
>
> The operator's manual is just that, not a "QRP-L type approved" manual :),
there
> is no schematic or any other technical information besides the specs.
>
> I think it's a tremendous value at the catalog price. Any price reduction
will
> make it a bargain hard to resist. I sure hope the rumors about other bands
being
> offered are true.
>
> Considering the price, features, performance and ergonomics, I will give
the
> HTX-10 two thumbs up.
>
> Please note this is a review of only one HTX-10, my unit. No connection
with
> Radio Shack, all possible disclaimers apply.
>
> 73 de Vince, VA3VF.
>
>

>
>

Date: Sat, 4 Mar 2000 12:20:36 EST
From: DOCROCK1T@aol.com
To: qrp-l@lehigh.edu (Low Power Amateur Radio Discussion)
Subject: [64909] Re: IT'S HERE!!!
Message-ID: <78.23b2f47.25f29fe4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 3/4/2000 8:14:50 AM Mountain Standard Time,
tjarey@home.com writes:

> Murphy has a sense of humor. How am I supposed to melt solder during the
> ARRL DX SSB contest????
>

1. Turn on soldering station.
2. Disconnect mic from off-brand HF gear.
3. Build K2.

See? Wasn't that easy?

73/2...

Rick...KB7MPG
Livingston, Montana
QRP-L # 2024

Date: Sat, 04 Mar 2000 10:21:37 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: qrp-l@lehigh.edu
Subject: [64910] Re: SPICE for Mac
Message-ID: <200003041721.LAA07193@bunyip.flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Yes there are several versions of SPICE for the Mac. IF you are looking

for freeware/shareware/demo software go to:

http://www.repairfaq.org/ELE/F_Free_Spice3.html#FREESPICE_005

What is available is somewhat dependent on what type of machine you have. Some will run on 68k machines and some will run on the PowerPCs.

I think the best SPICE available for the Mac at this stage is Beige Bag Spice 2.1 A fully capable demonstration copy good for 30 days is available from:

<http://www.beigebag.com/>

This is rather expensive though, \$89 with a student ID, \$249 without.

There is also Designworks:

<http://www.capilano.com/>

But it is really expensive at \$495.

Perhaps the best, and most expensive is
James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Sat, 04 Mar 2000 11:27:05 -0600
From: "George T. Baker" <w5yr@att.net>
To: ku7y@dri.edu
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [64911] Re: 450 ohm Window line
Message-ID: <38C14769.1AD671DA@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

In the late 40's QST carried an article describing the construction and use of the "Twin Lamp" which was a device similar to what Ron describes but which could be used to give some indication of SWR in Twinlead.

It used two "pilot lights" and the brightness of one was proportional to forward power while the other was proportional to reflected power. SWR was estimated by comparing the relative brightness of the two bulbs.

I immediately built one and put it on my 20-meter folded dipole line and was bewildered to see that, according to the article, I had a "large SWR."

Since at the age of 16 I was not all that impressed with things I really didn't understand all that well, I ignored the findings and went back to working DX on 20 CW!

72/73, George

Fairview, TX 30 mi NE Dallas in Collin county

Amateur Radio W5YR, in the 54th year and it just keeps getting better!

R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556

Monte Stark wrote:

> One little trick we used was to take a piece of twin lead
> about 3 foot long and cut one side in the center. Solder
> a low voltage light bulb in there. Solder the two ends of
> the twin lead together.

Date: Sat, 4 Mar 2000 12:31:13 -0500

From: "Vincent Ferme" <vferme@sprint.ca>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [64912] Re: RS HTX-10 - First impressions.

Message-ID: <009b01bf85ff\$7154c9c0\$46746395@vince>

MIME-Version: 1.0

Content-Type: text/plain;
charset="Windows-1252"

Content-Transfer-Encoding: 7bit

Michael,

I just tried it twice, worked as described in the manual. I left the power supply on all the time. I'm using a 13.8V/12A regulated power supply.

A couple of additions to my first impressions after another couple of hours use.

I'm paying attention to the S meter now and mine does not seem to go past S5. I think that's what other people were experiencing. Unfortunately I don't have another receiver to compare the two readings.

My CB mobile antenna was trimmed to 28.500 Khz. What I noticed is that when moving away (up or down) from 28.500 the power out drops substantially, almost like the radio is shutting down. With the tuner inline, I re-adjust the tuner and all is fine. The HTX-100 with the same antenna was not this sensitive.

Any comments on this?

But I'm still happy. :))

73 de Vince, VA3VF.

----- Original Message -----

From: "Michael Bower - N4NMR" <bowerm@ix.netcom.com>

According to the manual, you can "turn off" the key-press-beep by turning on the radio while holding down the PTT. This is true on my radio EXCEPT that it doesn't work the first time. If I turn on my radio for the first time with PTT engaged, I still have the beep. If I turn off the radio and then turn it back on, again with PTT engaged, THEN the beep goes away. Does yours work the same way?

Note: one thing that may be causing this my PS. I am using a gel-cell with an off/on switch. My normal procedure is 1) plug radio power line into

Date: Sat, 04 Mar 2000 11:32:02 -0600
From: "George T. Baker" <w5yr@att.net>
To: baltimoremd@baltimoremd.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [64913] Re: RF Meter
Message-ID: <38C14892.C84AEFA5@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

You need something more like a 0-1 ma meter or even more sensitive. Depends, of course, on what the "remote sensor" is . . .

If you use a simple short piece of wire or rod for an "antenna" and feed it into a diode, etc. (see the ARRL Handbook) then you will need a fairly sensitive meter.

72/73, George
Fairview, TX 30 mi NE Dallas in Collin county
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556

"baltimoremd@baltimoremd.com" wrote:

>
> Running 5 watts, would something like a 0-100 MA RF PANEL METER W/ REMOTE
> SENSOR act as a field strength meter? I'm too brain dead to do the math.
>
> thanks
> thom
> k3hrn

Date: Sat, 4 Mar 2000 11:29:49 EST
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [64914] Toroid identification ?
Message-ID: <20000304.124501.7455.0.kc8aon@juno.com>

I have a small toroid (about 7/8'' x 1/4'' with a 3/8'' dia. hole) and
was thinking of using it as a balun for a small qrp tuner.
The thing is about the same color as my HW-8, you know, the Heathkit
green, any ideas as to the frequency range this thing might cover ?

73...Rick McKee KC8AON { CW lives as long as I do ! }
Willow Wood, Ohio "oo's"
AR QRP # 269 QRP-L # 2112 ZOMBIE # 718 FPqrp # 33
TriState BrassPounders # 1

YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Sat, 4 Mar 2000 11:04:28 -0500
From: "Terres Family" <terresfm@ncia.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [64915] Re: RS HTX-10 - First impressions.
Message-ID: <003101bf85f3\$529c8600\$9582f3ce@computer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Got a HXT-10 for Christmas, tried it out but had not really used it, did
work a ssb contest abit once, i intended for it to be a mobile, buuuuuut...
the garage has still got gardening and other stuff in it from last summer so

i have been parking outside and its been cold and snowy and installing it in the bronco did not seem like a good idea just yet but it's been getting warmer so i tried it out and there was no audio. went through buttons and instructions but no go but found if i leaned on the tuning knob a bit the audio would come and go. 90 day warranty. took it back to RS yesterday, think it was ~ day # 88. so they are going to "fix" it. Anybody else have any trouble like that?

tnx & 72/73

jerry aa1of

franconia nh

Date: Sat, 4 Mar 2000 13:22:58 -0500
From: "Vincent Ferme" <vferme@sprint.ca>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [64916] Re: RS HTX-10 - First impressions.
Message-ID: <00c701bf8606\$abba43e0\$46746395@vince>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I have a feeling this is going to be the main source of problems with this radio. I haven't removed the cover but the controls seems kind loose.

A final comment on the s meter and maybe on this topic or soon people will start complaining. :)

I'm sitting here looking at the s meter (beats doing your income tax return :)) and it does show s9 signals. The problem I think is how the scale is designed. It goes 1, 3, 5, 9 and +30. It skips 7 and does not appear to indicate any value in between. For example, on s4 it will not stay between 3 and 5. If it peaks to 5, it will go all the way to 5. When it's less than 5 but more than 3 it will remain on 3.

73 de Vince, VA3VF.

"Ninety percent of the politicians give the other 10 percent a bad reputation" - Henry Kissinger.

----- Original Message -----

From: "Terres Family" <terresfm@ncia.net>

warmer so i tried it out and there was no audio. went through buttons and instructions but no go but found if i leaned on the tuning knob a bit the audio would come and go. 90 day warranty. took it back to RS yesterday,

think it was ~ day # 88. so they are going to "fix" it. Anybody else have any trouble like that?

Date: Sat, 04 Mar 2000 10:19:54 -0900
From: John Raynsford <al7jk@gci.net>
To: qrp Discussion <qrp-l@Lehigh.EDU>
Subject: [64917] 250mw from Alaska
Message-ID: <38C161D9.85922ADE@gci.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Excellent propagation today from here to the west coast states.
Have the mfj9015 adjusted to 250mw for the past few weeks.

(no I'm not trying to outdo the Pioneer 10 thing ;)

AL7JK, John
Iditarod Checkpoint #1
Eagle River, Alaska

Date: Sat, 4 Mar 2000 14:32:36 -0500
From: "Richard Clemens" <clemens@wvwc.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [64918] WOT: DSW-30 Construction Report #3
Message-ID: <002601bf8610\$6e887aa0\$f996d6ab@wvwc.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Third in a Series:

Well I finished the Small Wonder Labs DSW-30 last night. The final construction steps are no more difficult than the earlier parts. While you do wind four toroids near the end they are certainly not hard to do. Some folks find it so but I just settle into an easy chair with good light and the measured length of magnet wire and pull each loop snug with a small pair of pliers holding the end of the wire that will be cut off anyhow. When the wire starts to get rather short it is time to count the windings and see if I am done. When finished I trim the leads to an inch or so and use a pocket

knife and a pad of paper to hold the wires as I scrape off the coating. You only need to scrape where the solder will flow so it is a quick job.

Alignment is a breeze, takes 30 seconds tops.

Now is it is time for the test. It is not in the case so lots of clip leads but yes W1ST or W1HT responded to my CQ. Unfortunately QSB quickly got the best of them and no first contact. I tried a few more CQs but it was late and I figured it would be better to send code if I had some sleep!

This morning was a treat. First real contact was K8GA0 in West Virginia. (I too am in West Virginia but on the opposite side of the state). Then K8JD and WA3SK0 and WC3S.

Folks this is an amazing rig. I don't understand why anyone would want to buy any other kit in this price range for QRP. I has digital tuning, a superhet receiver, precise Morse code frequency output, two speed tuning, RIT, will drive a small speaker or headphones, has a built in keyer but accepts external keyer or a straight key.

I HIGHLY recommend this kit to any QRP amateur and find the instructions good enough for the novice builder as well as the advanced.

I have no connection with Small Wonder Labs but find their product so good I am going to order another one on a different band!

Listen for me on 30 meters tonight and work WV on QRP.

--

Rich Clemens, KB8A0B
clemens@wwwc.edu

Date: 4 Mar 00 20:13:50 America/Fort_Wayne
From: M Goins <mgoins@usa.net>
To: qrp-1@Lehigh.EDU
Subject: [64919] ARRL Phone Contest - qrp
Message-ID: <20000304201350.6731.qmail@awcst094.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

I know a lot of the guys that subscribe won't be intersted in this, and d=on't

use a mike, but if you never work phone, you're missing some serious fun =
in
that part of the bands too.

I worked 64 countries in the contest in about five hours of semi-casual
operating, using my kenwood 440 dialed down to 1 watt of output (measured=
through the WM-2) and my homebrew half wave vertical (center at 25 feet).=
10,
15, and 20 were outstanding - even worked about ten or so at 500 mills. =

Sure makes a difference when folks are listening for us and need the cont=
act,
although quite a few were fine with repeats as needed. The contest exchan=
ge
599 stuff is bunk, but the contacts are still fun.

mike
wb5yjx
SOC 54

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

Date: Sat, 04 Mar 2000 15:26:58 -0500
From: Fred Lesnick <flesnick@tbaytel.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [64920] DX Summit Cluster Down
Message-ID: <38C17192.D7869831@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Anyone else having trouble getting into the OH2AQ Cluster..... Been
trying off and on since last night, but no go.....

72/73
Fred
VE3FAL

Date: Sat, 4 Mar 2000 12:42:36 -0800
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: <qrp-1@lehigh.edu>

Subject: [64921] Parts: Super Deal on 40 meter crystals
Message-ID: <006c01bf861a\$2d925660\$9f7d68cf@DougHendricks>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guys, I screwed up a crystal order a few weeks ago. Well, it was really a combination of my fault and the crystal company. Anyway, instead of getting 1000 7.040 crystals, I got 1000 7.122 crystals. Here is the deal. We'll sell you these for \$1 each, but you gotta order 10, and that means we'll pay the shipping. Yeah, who needs to have 10 crystals of the same frequency? The price is right, guys, and you can put em in your junkbox. The next time you want to try building a 40 meter transmitter, say a circuit out of the handbook, you have the crystal, or crystals you need at hand. Or get a group of guys together and split them up, whatever works. We have 1000 of these to sell, so that means 100 packages of 10. (you can order more than 10 to get the \$1 per crystal price.) These are in the HC49U holders.

To order send Check or money order made out to Doug Hendricks to:

Doug Hendricks
862 Frank Ave.
Dos Palos, CA. 93620

Also, if you will please print your address in this format on the order sheet so I can cut it out and use it as a return mailing label, it saves a bunch of time.

Your Name
Address
City, State, Zip

Thanks again for the help. Also it will help if you send me email letting me know you want on the list so I will know you are ordering. Please put Crystal Deal in the subject line. 72, Doug

Date: Sat, 04 Mar 2000 16:27:14 -0500
From: tom palmer <n1tp@worldnet.att.net>
To: flesnick@tbaytel.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [64922] Re: DX Summit Cluster Down
Message-ID: <38C17FB2.86B9C9D3@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

It's been down all day, at least.

"Buckmasters" also, apparently.

N1TP, Tom.

Fred Lesnick wrote:

> Anyone else having trouble getting into the OH2AQ Cluster..... Been
> trying off and on since last night, but no go.....
>
> 72/73
> Fred
> VE3FAL

Date: Sat, 04 Mar 2000 16:56:02 -0500
From: "Brian Murphy" <brmurphy@netside.com>
To: qrp-l@lehigh.edu
Subject: [64923] Z Match Tuner Circuit Diagram
Message-ID: <200003042142.QAA04062@mx.logicsouth.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Help with these technical questions, please:

1) What is a 'Z-Match' tuner and how is it better than conventional tuner circuits, especially for balanced line feeders?

2) If the balun is on the transmitter side of the tuner, then what kind of balanced tuning network would yield minimal loss in the tuner?

Any Info or references would be appreciated.
Brian, N4YTL

Date: Sat, 4 Mar 2000 17:12:57 -0500
From: "Ron Polityka" <wb3aal@talon.net>
To: ". QRP-L" <qrp-l@Lehigh.EDU>
Subject: [64924] Appalachian Trail Outing

Message-ID: <00b601bf8626\$cc33f6a0\$6ae508cf@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well we had a Blast!!!

Carter, N3AO and myself, WB3AAL, went out to activate the Appalachian Trail for the award program that the Eastern PA QRP Club sponsors. You can find the information at www.n3epa.org .

We found our operating spot on our second try. We were a few miles away from the Hawk Mountain Sanctuary. Our location on the Appalachian Trail was as follows.

N 40 degree 38 minute 01.4 seconds
S 75 degree 57 minute 40.1 seconds

This is near the town of Eckville, PA.

Carter was using his K2 and a dipole for 40 meters. I was using my TS-50 and a Killer Vertical that was in the June 1999 issue of QST.

Carter made around 18 QSO's with stations that were looking for the Trail. I made 8 QSO's on the following bands, 20, 15 & 10 meters. I tried 80 meters but the band was not open and I did not hear any signals. I worked four DX station, LY, Bulgaria on 15 Meters, GD, Isle of Man, on 15 Meters and two DL, Germany, stations on 10 Meters. I also worked VA, PA & MO states.

I will be placing our logs and pictures on the Appalachian Trail Award web page early next week. Our biggest problem was cold fingers, the temperature was around 43' F. and it was just a little cold for the paddles we were using. So Carter and myself would like to apologize for the bad CW we were sending. I had to look a my fingers to get them to send the CW correctly.

We had a ball and I would like to thank all the stations that worked us. We definitely had cabin fervor!!!

72 & 73
Good DXing

Ron Polityka
de WB3AAL

wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv

<http://www.n3epa.org>

Eastern Pennsylvania QRP Club Call

N3EPA E-mail address: n3epa@talon.net

EPA QRP #1	NJ QRP #179
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal	Zombie #625
ARS # 380	HI-QRP #153
VA QRP Society	

Date: Sat, 04 Mar 2000 14:15:00 -0800
From: Ed Loranger <we6w@netzero.net>
To: Low Power Amateru Radio Discussion <qrp-1@lehigh.edu>, "Wilford D. Lindsey" <70511.3041@compuserve.com>
Subject: [64925] K2 SSB!
Message-ID: <38C18AE4.20006232@netzero.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang, It's been a fun 10 days since the remaining options to the K2 arrived. The NB upgrade works great and a huge QRN signal from a bad transformer nearby helped with the test. The s9+10 dB signal went to below S1 and S1 on peaks only.

Then the ATU got built and is a fine option. The SSB works great and I've had about 4 or 5 QSO's on THAT mode.... The mike has been put away and I'm to be wiring it for a Yaesu mike tomorrow.

I did have a few SSB qso's on 40 meters, one was a fun 3-way, all qrp.

Then I went up to 17 meters for the K2 ssb net but worked someone else in AZ who gave the 10 Watts a good report.

Got all the filters repeaked using the 10 MHz oven compensated commercial oscillator and MAN, Even the tightest .1 filter responds very close to the wider filters. And the SSB filters were a cinch to adjust as well.

K7GT stopped over today and I just had to show him the K2 innards.
Very pretty. Gonna miss it. Fortunately another K2 kit arrived from
Maine and I'll be starting that one today. Who knows, maybe I'll
have enough of it done to bag the fox with it on Tuesday!

Hope y'all are enjoying the QRP and QRP kit building experience as
much as I am.

All the best to all.

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
<http://www.qsl.net/we6w> Santa Rosa, CA
Call Tobor, The 8th man, to the rescue!

Date: Sat, 4 Mar 2000 17:22:37 -0500
From: "Ron Polityka" <wb3aal@talon.net>
To: ". QRP-L" <qrp-l@Lehigh.EDU>
Subject: [64926] Re: Appalachian Trail Outing
Message-ID: <00ea01bf8628\$25f39f00\$6ae508cf@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sorry LY is Lithuania!!

72 & 73
Good DXing

Ron Polityka
de WB3AAL
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv
 <http://www.n3epa.org>
Eastern Pennsylvania QRP Club Call
N3EPA E-mail address: n3epa@talon.net

EPA QRP #1	NJ QRP #179
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal	Zombie #625

ARS # 380
VA QRP Society

HI-QRP #153

Date: Sat, 04 Mar 2000 22:21:35 +0000
From: "David Hurley,n2zhy" <n2zhy@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [64927] OT: Pitcairn Island VP6BR
Message-ID: <38C18C6F.F32F8968@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I know I'm not supposed to post this, and I absolutely hate myself for doing so, but since the DX cluster is down ...

22:17 utc 28.658.2 VP6BR Pitcairn Island Calling and lonely!

Got him easy from east coast on 5 watts.

... the Devil made me do it!

David,n2zhy
Princeton,NJ

Date: Sat, 4 Mar 2000 17:20:16 -0500
From: "Dennis Brickey" <n4dd@preferred.com>
To: <qrp-1@lehigh.edu>
Subject: [64928] Need On Air 40 Meter Antenna checks ..now if possible
Message-ID: <000101bf8627\$d3c7dac0\$b57860ce@computer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks for letting me in here. I am trying a 4 sloper array on 40 meters at about 7.040 and would like to try some front to back and side rejection checks. If anyone has some spare time, I will be there for a while. I will be outside so I won't see any replys..Thanks a million in advance.

Dennis/N4DD

Date: Sat, 04 Mar 2000 17:54:00 -0500
From: Hank Kohl K8DD <k8dd@arrl.net>
To: flesnick@tbaytel.net
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [64929] Re: DX Summit Cluster Down
Message-ID: <4.1.20000304175131.00d28d10@192.0.0.6>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Try <http://www.eham.net/DX/spots.html>
The DX spots there update every minute (or everytime you refresh)
73 Hank K8DD

At 03:26 PM 04-03-00 -0500, Fred Lesnick wrote:
>Anyone else having trouble getting into the OH2AQ Cluster..... Been
>trying off and on since last night,but no go.....
>
>72/73
>Fred
>VE3FAL

Date: Sun, 05 Mar 2000 09:57:46 +1100
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [64930] Interesting question - origin of Vcc
Message-ID: <38C194EA.A4FB24D3@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gurus,

I have been asked (a) the origins of Vcc and (b) precisely the meaning of the second "c"

My rely is as follows:

Hi Jason,

I thought that was a pretty basic question ("oh yeah I used to know that" - research, research etc.)

It's an eminently sensible question which for the moment I can only

answer as follows: (in a sort of reverse order)

Vce = Voltage between collector and emitter

Vbe = ditto base ditto

Vcb = ditto ditto base

Similarly we have Vbc, Veb, and Vec.

Now Supply voltage (DC) applied to base, collector, emitter has historically been designated (respectively):

Vbb, Vcc, Vee

Notwithstanding my research in recent days through every text, reference book I have I can find no reference as to why it is Vcc.

For the moment I can only assume the origin has something to do with the second "c" in Vcc (or "b" or "e" as the case may be) being created to indicate we are purely talking about DC potential and perhaps the need to maintain a three letter system.

I'll make some enquiries among my more learned colleagues.

Regards,

Can anyone throw some more definitive light on the topic?

--

72/73's

Ian Purdie Budgewoi N.S.W. Australia - Co-ords 33o:14' S 151o:34' E

My FREE Newsletter:- <mailto:vk2tip@qsl.net?Subject=Subscribe>

VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 "duh?"

URL - <http://www.integritynet.com.au/~purdic/>

Date: Sat, 04 Mar 2000 18:39:55 -0500
From: Fred Lesnick <flesnick@tbaytel.net>
To: n4dd@preferred.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [64931] Re: Need On Air 40 Meter Antenna checks ..now if possible
Message-ID: <38C19ECB.5BAB0961@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Im ok anytime tonight after 0300z.....

72/73

Fred

EN58jj

Thunder bay,Ontario

Dennis Brickey wrote:

>

> Thanks for letting me in here. I am trying a 4 sloper
> array on 40 meters at about 7.040 and would like to try
> some front to back and side rejection checks. If anyone
> has some spare time, I will be there for a while. I will be
> outside so I won't see any replies..Thanks a million in
> advance.
> Dennis/N4DD

Date: Sat, 04 Mar 2000 15:27:30 -0600

From: "Steve Yates, AA5TB" <aa5tb@swbell.net>

To: ianpurdie@integritynet.com.au, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [64932] Re: Interesting question - origin of Vcc

Message-ID: <005701bf8620\$730758c0\$4c28bcd0@aa5tb>

MIME-version: 1.0

Content-type: text/plain; charset="iso-8859-1"

Content-transfer-encoding: 7bit

Ian,

I always understood that in Vcc, the cc stood for "collector current". I know we're talking about voltage but you know how things get twisted. Just like "conventional" and "real" current flow which are opposite of each other.

73,

Steve Yates - AA5TB

Fort Worth, TX - EM12gs

<http://home.swbell.net/aa5tb>

<http://www.geocities.com/aa5tb>

Date: Sat, 4 Mar 2000 18:51:26 -0500

From: "Robert Leavitt" <leavittkid@mediaone.net>

To: <qrp-1@Lehigh.EDU>

Subject: [64933] ANT:Tuner
Message-ID: <001001bf8634\$8e34a760\$c0609318@ne.mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I am looking for directions for building a QRP antenna tuner for a random
wire antenna.
Any help would be appreciated.

Thanks

Drew Leavitt
KB1DHB/AA
kb1dhb@qsl.net

End of QRP-L Digest 1750

